



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ITL37516.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

REPORT NUMBER: ITL37516                      DATE: 11-01-1990  
 PREPARED FOR: LEXALITE INTERNATIONAL CORP.  
 CATALOG NUMBER: 816 ACRYLIC W/2% WHITE (LC=7.5)  
 LUMINAIRE: FORMED ACRYLIC PRISMATIC REFLECTOR/REFRACTOR WITH WHITE  
                   PAINTED UPPER COLLAR, OPEN BOTTOM.  
 LAMP: CLEAR 250-WATT HIGH PRESSURE SODIUM, MOGUL BASE  
              RATED 27500 LUMENS. BASE UP POSITION.  
 MOUNTING: PENDANT  
 THE ARC TUBE VOLTAGE RISE= 0.0

**CHARACTERISTICS**

|                                 |             |
|---------------------------------|-------------|
| Total Rated Lamp Lumens         | 27500       |
| Total Luminaire Efficiency      | 91.4 %      |
| Luminaire Efficacy Rating (LER) | 100         |
| Total Luminaire Watts           | 251         |
| Ballast Factor                  | 1.00        |
| CIE Type                        | Semi-Direct |
| Spacing Criteria (0-180)        | 2.12        |
| Spacing Criteria (90-270)       | 2.12        |
| Spacing Criteria (Diagonal)     | 1.78        |
| Basic Luminous Shape            | Point       |
| Luminous Length (0-180)         | 0.00 ft     |
| Luminous Width (90-270)         | 0.00 ft     |
| Luminous Height                 | 0.00 ft     |

**LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 0                | 0                 | 0                 |
| 55                  | 0                | 0                 | 0                 |
| 65                  | 0                | 0                 | 0                 |
| 75                  | 0                | 0                 | 0                 |
| 85                  | 0                | 0                 | 0                 |

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CANDELA TABULATION

|     | <u>0</u> |
|-----|----------|
| 0   | 3762.00  |
| 5   | 3724.00  |
| 10  | 3804.00  |
| 15  | 4324.00  |
| 20  | 5096.00  |
| 25  | 5938.00  |
| 30  | 6771.00  |
| 35  | 7422.00  |
| 40  | 7598.00  |
| 45  | 6302.00  |
| 50  | 4282.00  |
| 55  | 2837.00  |
| 60  | 1991.00  |
| 65  | 1580.00  |
| 70  | 1350.00  |
| 75  | 1235.00  |
| 80  | 1187.00  |
| 85  | 1152.00  |
| 90  | 1117.00  |
| 95  | 1088.00  |
| 100 | 1053.00  |
| 105 | 954.10   |
| 110 | 791.30   |
| 115 | 590.30   |
| 120 | 430.80   |
| 125 | 331.90   |
| 130 | 408.40   |
| 135 | 590.30   |
| 140 | 804.10   |
| 145 | 992.40   |
| 150 | 890.30   |
| 155 | 765.80   |
| 160 | 545.60   |
| 165 | 153.20   |
| 170 | 111.70   |
| 175 | 95.73    |
| 180 | 108.50   |

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**ZONAL LUMEN SUMMARY**

| Zone   | Lumens   | %Lamp | %Fixt |
|--------|----------|-------|-------|
| 0-30   | 4382.88  | 15.9  | 17.4  |
| 0-40   | 8978.87  | 32.7  | 35.7  |
| 0-60   | 16355.11 | 59.5  | 65.1  |
| 0-90   | 20545.69 | 74.7  | 81.8  |
| 90-120 | 2776.83  | 10.1  | 11.1  |
| 90-130 | 3114.09  | 11.3  | 12.4  |
| 90-150 | 4151.05  | 15.1  | 16.5  |
| 90-180 | 4581.34  | 16.7  | 18.2  |
| 0-180  | 25127.03 | 91.4  | 100   |

Total Luminaire Efficiency = 91.4%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 358.79  |
| 10-20   | 1258.49 |
| 20-30   | 2765.6  |
| 30-40   | 4595.99 |
| 40-50   | 4712.35 |
| 50-60   | 2663.89 |
| 60-70   | 1610.01 |
| 70-80   | 1323.74 |
| 80-90   | 1256.83 |
| 90-100  | 1185.51 |
| 100-110 | 993.26  |
| 110-120 | 598.06  |
| 120-130 | 337.26  |
| 130-140 | 459.99  |
| 140-150 | 576.97  |
| 150-160 | 347.12  |
| 160-170 | 73.3    |
| 170-180 | 9.86    |

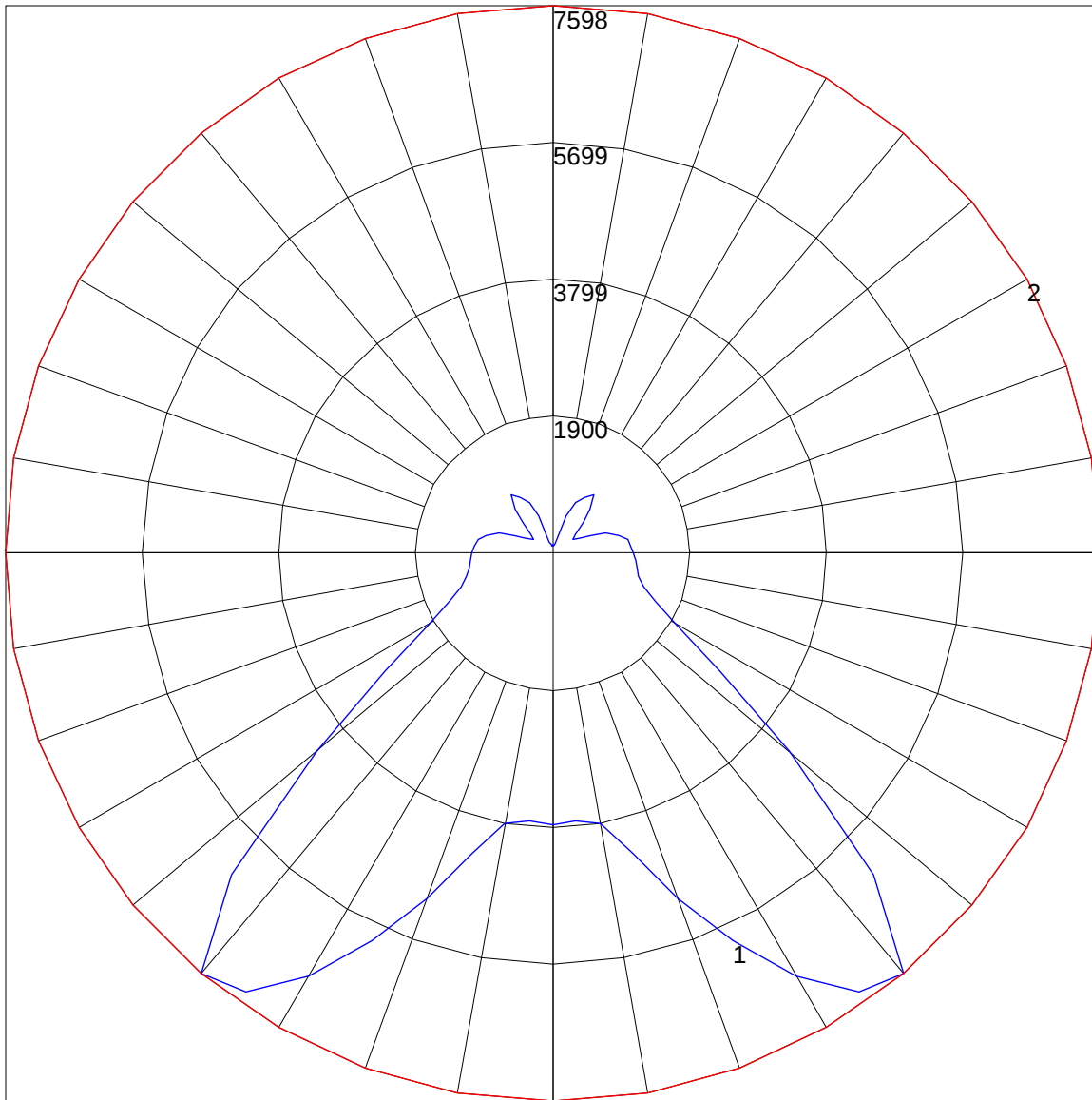
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC | 80  |     |     |     | 70  |     |     |     | 50 |    |    | 30 |    |    | 10 |    |    | 0  |
|----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|
| RW | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| 0  | 105 | 105 | 105 | 105 | 100 | 100 | 100 | 100 | 92 | 92 | 92 | 85 | 85 | 85 | 78 | 78 | 78 | 75 |
| 1  | 95  | 90  | 86  | 82  | 90  | 86  | 83  | 79  | 79 | 76 | 74 | 73 | 71 | 68 | 67 | 65 | 64 | 61 |
| 2  | 86  | 78  | 72  | 67  | 82  | 75  | 70  | 65  | 69 | 65 | 61 | 64 | 60 | 57 | 59 | 56 | 53 | 50 |
| 3  | 79  | 69  | 62  | 56  | 75  | 66  | 59  | 54  | 61 | 56 | 51 | 56 | 52 | 48 | 52 | 48 | 45 | 42 |
| 4  | 72  | 61  | 53  | 47  | 68  | 59  | 51  | 46  | 54 | 48 | 43 | 50 | 45 | 41 | 46 | 42 | 39 | 36 |
| 5  | 66  | 54  | 46  | 40  | 63  | 52  | 45  | 39  | 48 | 42 | 37 | 45 | 40 | 35 | 42 | 37 | 33 | 31 |
| 6  | 61  | 49  | 40  | 35  | 58  | 47  | 39  | 34  | 43 | 37 | 32 | 40 | 35 | 31 | 37 | 33 | 29 | 27 |
| 7  | 56  | 44  | 36  | 30  | 53  | 42  | 35  | 30  | 39 | 33 | 28 | 37 | 31 | 27 | 34 | 29 | 26 | 23 |
| 8  | 52  | 40  | 32  | 27  | 49  | 38  | 31  | 26  | 36 | 29 | 25 | 33 | 28 | 24 | 31 | 26 | 23 | 21 |
| 9  | 48  | 36  | 28  | 23  | 46  | 35  | 28  | 23  | 32 | 26 | 22 | 30 | 25 | 21 | 28 | 24 | 20 | 18 |
| 10 | 45  | 33  | 26  | 21  | 43  | 32  | 25  | 20  | 30 | 24 | 20 | 28 | 22 | 19 | 26 | 21 | 18 | 16 |

POLAR GRAPH



Maximum Candela = 7598 Located At Horizontal Angle = 0, Vertical Angle = 40  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)